

## **Lumiprobe Corporation**

201 International Circle,135号套房 马里兰州亨特瓦雷,21030

美国

电话: +1 888 973 6353 传真: +1 888 973 6354

电子邮件: order@lumiprobe.com

## (C4) Butyrylcarnitine

明:

http://cn.lumiprobe.com/p/butyrylcarnitine

Butyrylcarnitine, also known as (3R)-3-(butyryloxy)-4-(trimethylammonio)butanoate or L-carnitine butyryl ester, is classified as a member of the acylcarnitines. Acylcarnitines are organic compounds containing a fatty acid with the carboxylic acid attached to carnitine through an ester bond. Butyrylcarnitine may be used as an analytical reference standard for the separation and identification of underivatized butyryl-L-carnitine in human plasma samples using high-performance liquid chromatography coupled to tandem mass spectrometry (HPLC-MS/MS).

Butyrylcarnitine can be used to study its role in energy production and its metabolic effects, to understand metabolic diseases and conditions associated with mitochondrial dysfunction. Butyrylcarnitine is a major biological marker of short-chain acyl-CoA dehydrogenase deficiency, glutaric acidemia type II and isobutyrylglycinuria, and ethylmalonic encephalopathy.

The product is used primarily as a control for MS/MS.

$$O = O \\ O \\ O \\ N^{+} CI^{-}$$

```
白色固体
观:
分
   267.75
CAS 162067-50-7 (chloride), 25576-40-3 (inner salt)
编号:
分子式:
   C_{11}H_{22}CINO_4
   DMSO, DMF, 乙醇
   NMR <sup>1</sup>H和HPLC-MS (95+%)
控
制:
储
   接收后24个月在黑暗中-20°C。运输:在室温下最多3周。干燥。
   本产品仅供研究目的提供和销售。
                         本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试,且未经明示或暗示授权用于其他任何用途,包括但不限于体外诊
```